

Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office

Atty. Docket No. 03-214-A Serial No. 10/789,831

Applicant: Mirkin, et al. Bao et al.

Filing Date: February 27, 2004 Group: 8249

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

1/27/06

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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
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FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No
1/27/06	1/27/06	1.	WO 00/79008 A1	12/28/00	PGF WO	—	—
		2.	WO 01/25002 A1	04/12/01	PGF WO	—	—

1/27/06	3.	Taton, et al., "Two-Color Labeling of Oligonucleotide Arrays via Size-Selective Scattering of Nanoparticle Probes", Journal of the American Chemical Society, 123, No. 21, pp. 5164-5165 (May 2001).
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	7.	Li, et al., "A High-density Conduction-based Micro-DNA Identification Array Fabricated with a CMOS Compatible Process", IEEE Transactions on Electron Devices, IEEE Inc. New York, US, 50, No. 10, pp. 2165-2170 (October 2003).
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STATEMENT BY APPLICANTApplicant: *Mirkin, et al. Bao et al.*Filing Date:
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U.S. PATENT DOCUMENTS


Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date
<i>—</i>	1.	6,361,944	03/26/02	Mirkin, et al.	435	6	06/25/99
<i>—</i>	2.	6,417,340	07/09/02	Mirkin, et al.	536	23.1	10/20/00
<i>L</i>	3.	6,495,324	12/17/02	Mirkin, et al.	435	6	10/20/00
<i>L</i>	4.	6,506,564	01/14/03	Mirkin, et al.	435	6	06/26/00
<i>L</i>	5.	6,582,921	06/24/03	Mirkin, et al.	435	6	09/20/01
<i>L</i>	6.	6,602,669	08/05/03	Mirkin, et al.	435	6	07/11/01
<i>L</i>	7.	6,610,491	08/26/03	Mirkin, et al.	435	6	09/28/01
<i>L</i>	8.	6,645,721	11/11/03	Mirkin, et al.	435	6	09/20/01
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<i>L</i>	11.	6,682,895	01/27/04	Mirkin, et al.	435	6	10/12/01
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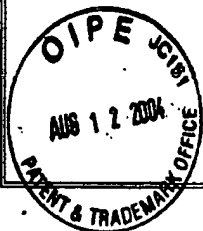
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Examiner 	Date Considered 1/27/06
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant: Bao, et al.	
		Filing Date: February 27, 2004	Group: TBA



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

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<i>[Handwritten Initial]</i>	1.	5,151,510	09/29/92	Stec, et al.	536	25.3	
	2.	6,361,944	03/26/02	Mirkin, et al.			
	3.	6,417,340	07/09/02	Mirkin, et al.			
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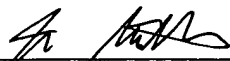
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<i>[Handwritten: 1/27/04]</i>	6. PCT/US00/17507	1/4/01	PCT	wo			
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	15.	LaPlanche, et al., "Phosphorothioate-modified oligodeoxyribonucleotides. III. NMR and UV spectroscopic studies of R _p -R _p , S _p -S _p , and R _p -S _p duplexes, [d(GG _s AATTCC)] ₂ , derived from diastereomeric O-ethyl phosphorothioates", <i>Nucleic Acids Research</i> , Vol. 14, No. 22, pp. 9081-9093 (1986)
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	17.	Stec, et al., "Automated Solid-Phase Synthesis, Separation, and Stereochemistry of Phosphorothioate Analogues of Oligodeoxyribonucleotides", <i>J. Am. Chem. Soc.</i> , Vol. 106, pp. 6077-6079 (1984)
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**U.S. Department of Commerce
Patent and Trademark Office**

0003-214-A

10/789,831



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Applicant:

Bao, et al.

Filing Date:

February 27, 2004

Group:

TBA

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
<i>LN</i>	1.	5,609,907	03/11/97	Natan	427	2.12	
<i>LN</i>	2.	6,025,202	02/15/00	Natan	436	104	
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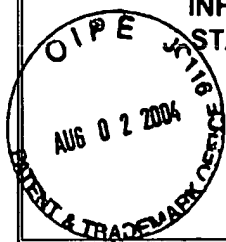
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<i>11/27/06</i>	<i>11/27/06</i>	3. 5,360,895	11/01/94	Hainfield, et al.	530	391.5	
<i>11/27/06</i>	<i>11/27/06</i>	4. 5,384,265	01/24/95	Kidwell, et al.	436	525	
<i>11/27/06</i>	<i>11/27/06</i>	5. 5,472,881	12/05/95	Beebe, et al.	436	94	
<i>11/27/06</i>	<i>11/27/06</i>	6. 5,599,668	02/04/97	Stimpson, et al.	435	6	
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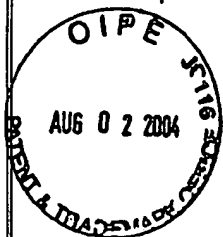
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DISTRICT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
	1.	WO 92/04460	19 March 1992	PCT WO			*
2	2.	WO 90/02205	8 March 1990	PCT WO			*

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de	3.	5,922,537	07/13/99	Ewart, et al.	435	6	11/8/96
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L	10.	Nicewarner- Peña S., et al., "Hybridization and Enzymatic Extension of Au Nanoparticle-Bound Oligonucleotides," <i>J. Am. Chem. Soc.</i> , Vol. 124, p. 7314-7323 (2002)					
L	11.	Whitesides G.M., et al., "Soft Lithography in Biology and Biochemistry," <i>Annu. Rev. Biomed. Eng.</i> , p. 335-373 (2001)					

EXAMINER	DATE CONSIDERED
	1/27/06

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FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No.	Serial No.
		INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	03-214-A
	Applicant:		
	Bao, et al.		Filing Date:
		February 27, 2004	TBA

U.S. PATENT DOCUMENTS


Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1.	5,599,668	02/04/97	Stimpson, et al.			
	2.	5,751,018	05/12/98	Alvisatos, et al.			
	3.	5,990,479	11/23/99	Weiss, et al.			

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
1/27/04	✓	4.	WO 92/04469	3/19/92	PCT	WO		✓

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

✓	5.	Stimpson, et al., "Real-time detection of DNA hybridization and melting on oligonucleotide arrays by using optical wave guides," <i>Proc. Natl. Acad. Sci.</i> , Vol. 92, pp. 6379-6383, California Institute of Technology (1995) U.S.
✓	6.	Storhoff, et al., "Strategies for Organizing Nanoparticles into Aggregate Structures and Functional Materials," <i>Journal of Cluster Science</i> , Vol. 8, No. 2, pp. 179-217, Plenum Publishing Corporation (1997) U.S.
	7.	Storhoff, et al., "One Pot Colorimetric Differentiation of Polynucleotides with Single Base Imperfections Using Gold Nanoparticle Probes," <i>J. Am. Chem. Soc.</i>, Vol. 120, pp. 1961-1964, American Chemical Society (1998) U.S.
	8.	Tomlinson, et al., "Detection of Biotinylated Nucleic Acid Hybrids by Antibody Coated Gold Colloid," <i>Analytical Biochemistry</i>, Vol. 171, pp. 217-222, Academic Press, Inc. (1988) U.S.
	9.	Velek, et al., "In Situ Assembly of Colloidal Particles into Miniaturized Biosensors," <i>Langmuir</i>, Vol. 15, No. 11, pp. 3693-3698, American Chemical Society (1999) U.S.

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	1/27/04

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		03-214-A	10/789,831
		Applicant: Bao, et al.	
		Filing Date:	Group:
		February 27, 2004	TBA




U.S. PATENT DOCUMENTS


Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

	10.	Xu, et al., "The First Raman Spectrum of an Organic Monolayer on a High-Temperature Superconductor: Direct Spectroscopic Evidence for a Chemical Interaction between an Amine and Yb ₂ Cu ₃ O _{7-δ} ," <i>J. Am. Chem. Soc.</i> , Vol. 119, pp. 235-236, American Chemical Society (1997) U.S.
	11.	Yguerabide, et al., "Light-Scattering Submicroscopic Particles as Highly Fluorescent Analogs and Their Use as Tracer Labels in Clinical and Biological Applications," I. Theory, <i>Analytical Biochemistry</i> , Vol. 262, pp. 137-156 (1998) U.S.
	12.	Yguerabide, et al., "Light-Scattering Submicroscopic Particles as Highly Fluorescent Analogs and Their Use as Tracer Labels in Clinical and Biological Applications," II. Experimental Characterization, <i>Analytical Biochemistry</i> , Vol. 262, pp. 157-176 (1998) U.S.

EXAMINER		DATE CONSIDERED	1/27/06
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U.S. PATENT DOCUMENTS

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<i>K</i>	1.	5,830,986	11/03/98	Merrill, et al.	528	332	10/28/96
<i>K</i>	2.	5,900,481	05/04/99	Lough, et al.	536	55.3	11/06/96
<i>K</i>	3.	6,203,989	03/20/01	Goldberg, et al.	435	6	03/25/99
<i>K</i>	4.	6,251,303	06/26/01	Bawendi, et al.	252	301.4R	09/18/98
<i>K</i>	5.	6,277,489	08/21/01	Abbott, et al.	428	403	12/04/98
<i>K</i>	6.	6,306,610	10/23/01	Bawendi, et al.	435	7.1	09/17/99
<i>K</i>	7.	6,361,944	03/26/02	Mirkin, et al.	435	6	06/25/99
<i>K</i>	8.	6,365,418	04/02/02	Wagner, et al.	436	518	05/18/00
<i>K</i>	9.	6,417,340	07/09/02	Mirkin, et al.	536	23.1	10/20/00

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		Document Number	Date	Country	Class	Subclass	Translation Yes	Translation No
<i>K</i>	10.	WO 93/25709	23 December 1993	PCT WO	—	—		
	11.	WO 98/04740	5 February 1998	PCT				
<i>K</i>	12.	WO 98/17317	30 April 1998	PCT WO	—	—		X
<i>K</i>	13.	WO 99/60169	25 November 1999	PCT WO	—	—		
	14.	WO 00/33079	8 June 2002	PCT WO	—	—		
<i>K</i>	15.	WO 01/00876	4 January 2001	PCT WO	—	—		

EXAMINER <i>[Signature]</i>	DATE CONSIDERED <i>1/27/04</i>
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Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

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		Document Number	Date	Country	Class	Subclass	Translation Yes No	
		16. WO 01/51665	19 July 2001	PCT WO				
		17. WO 01/73123	4 October 2001	PCT				
1/27/06		18. WO 01/86301	15 November 2001	PCT				X
		19. WO 02/04681	17 January 2002	PCT				
		20. WO 02/18643	7 March 2002	PCT				
1/27/06		21. WO 02/36169	10 May 2002	PCT WO				
1/27/06		22. WO 02/46483	13 June 2002	PCT WO				
		23. WO 02/46472	13 June 2002	PCT				

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24.	Letsinger, R., et al., "Chemistry of Oligonucleotide-Gold Nanoparticle Conjugates," <i>Phosphorus, Sulfur and Silicon</i> , Volume 144, p. 359-362 (1999)
25.	Letsinger, R., et al., "Use of a Steroid Cyclic Disulfide Anchor in Constructing Gold Nanoparticle Oligonucleotide Conjugates," <i>Bioconjugate Chem.</i> , p. 289-291 (2000)

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<i>[Signature]</i>	1/27/06

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

26.	Li Z., et al., "Multiple thiol-anchor capped DNA-gold nanoparticle conjugates," <i>Nucleic Acids Research</i> , Volume 30, p. 1558-1562 (2002)
27.	Nuzzo R., et al., "Spontaneously Organized Molecular Assemblies. 3. Preparation and Properties of Solution Adsorbed Monolayers of Organic Disulfides on Gold Surfaces," <i>J. Am Chem. Soc.</i> , Volume 109, p. 2358-2368 (1987)
28.	Otsuka, H., et al., "Quantitative and Reversible Lectin-Induced Association of Gold Nanoparticles Modified with α -Lactosyl- α -mercapto-poly(ethyleneglycol)," <i>J. Am Chem. Soc.</i> , Volume 123, p. 8226-8230 (2001)
29.	Wuelfing, P., et al., "Nanometer Gold Clusters Protected by Surface-Bound Monolayers of Thiolated Poly(ethylene glycol) Polymer Electrolyte," <i>J. Am Chem. Soc.</i> , Volume 120, p. 12696-12697 (1998)

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